

FLORENCIA G. LEONARDI

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PERSONAL DATA

Born August 29, 1978.
Married, 3 children.

EDUCATION

2003–2007 Ph.D. in Bioinformatics, Universidade de São Paulo (Brazil). Advisors: Antonio Galves and Hugo A. Armelin.
1998–2002 Bachelor in Mathematics, Facultad de Ciencias Exactas y Naturales, Universidad Nacional de Mar del Plata (Argentina).

POSITIONS

2013–Present Adjoint Professor, level 2, at Instituto de Matemática e Estatística, Universidade de São Paulo (Brazil).
2014–2016 Post-doctoral fellow, ETH Zurich (Switzerland).
2008–2013 Adjoint Professor at Instituto de Matemática e Estatística, Universidade de São Paulo (Brazil).
2007–2008 Post-doctoral fellow, Instituto de Matemática e Estatística, Universidade de São Paulo (Brazil).
2004–2006 Teaching assistant of undergraduate courses in Statistics, Departamento de Estatística, Instituto de Matemática e Estatística, Universidade de São Paulo (Brazil).
08-12/2002 Research fellow, Facultad de Ciencias Exactas y Naturales, Universidad Nacional de Mar del Plata (Argentina), under supervision of Prof. Horacio De Pasquale.
2001–2002 Teaching assistant of undergraduate courses in Mathematics, Departamento de Matemática, Facultad de Ciencias Exactas y Naturales, Universidad de Mar del Plata (Argentina).

OTHER PROFESSIONAL ACTIVITIES

2012–2016 Member of Latin American Regional Committee of the Bernoulli Society.

FELLOWSHIPS AND AWARDS

2010–Present	Research fellowship, level 2, Conselho Nacional de Desenvolvimento Científico e Tecnológico (CNPq), Brazil.
2014–2016	Post-doctoral fellowship, Fundação de Amparo à Pesquisa do Estado de São Paulo, Brazil.
2013	L’Oréal award “For Women In Science”, Brazil.
2007–2008	Post-doctoral fellowship, Fundação de Amparo à Pesquisa do Estado de São Paulo (FAPESP), Brazil.
2003–2007	PhD grant, Coordenação de Aperfeiçoamento de Pessoal de Nível Superior (CAPES), Brazil.
08-12/2002	Research fellowship, Facultad de Ciencias Exactas y Naturales, Universidad Nacional de Mar del Plata, Argentina.
2002	Laurate student, Universidad Nacional de Mar del Plata, Argentina.
2001–2002	Graduate fellowship, FOMEC 303-Universidad Nacional de Mar del Plata, Argentina.

PUBLICATIONS

2017	with A. Cerqueira, D. Fraiman and Claudia D. Vargas. A test of hypotheses for random graph distributions built from EEG data. To appear in <i>IEEE Transactions on Network Science and Engineering</i> .
2016	with P. Bühlmann. Comments on: A random forest guided tour. <i>Test</i> , 25 (2), pp. 239–246.
2015	with S. Gallo. Nonparametric statistical inference for the context tree of a stationary ergodic process. <i>Electronic Journal of Statistics</i> , 9 (2), pp. 2076–2098.
2015	with I. Armendáriz, P.A. Ferrai and P. Groisman. Finite cycle Gibbs measures of permutations of $\mathbb{Z}^d$. <i>Journal of Statistical Physics</i> , 158 (6), pp. 1213–1233.
2014	with P. Collet. Loss of memory of hidden Markov models and Lyapunov exponents. <i>Annals of Applied Probability</i> , 24 (1), pp. 422–446.
2012	with A. Galves, C. Galves, J. Garcia and N.L. Garcia. Context tree selection and linguistic rhythm retrieval from written texts. <i>Annals of Applied Statistics</i> , 6 (1), pp. 186–209.
2011	with A. Garivier. Context tree selection: a unifying view. <i>Stochastic Processes and their Applications</i> , 121 (11), pp. 2488–2506.
2010	Some upper bounds for the rate of convergence of penalized likelihood context tree estimators. <i>Brazilian Journal of Probability and Statistics</i> , 24 , pp. 321–336.
2009	with J.R. Busch, P.A. Ferrari, A.G. Flesia, R. Fraiman and S. Grynberg. Testing statistical hypothesis on random trees and applications to the protein classification problem. <i>The annals of applied statistics</i> , 3 , pp. 542–563.
2008	with G. Flesia and R. Fraiman. Pattern recognition on random trees associated to protein functionality families In: 2 BIOMAT, 2008, La Falda. <i>Actas de la Academia Nacional de Ciencias de Córdoba</i> , Argentina, J. Tirao (Ed).

- 2008 with P. Collet and A. Galves. Random perturbations of stochastic processes with unbounded variable length memory. *Electronic Journal of Probability*, **13**, pp. 1345-1361.
- 2008 with A. Galves. Exponential inequalities for empirical unbounded context trees. In and Out of Equilibrium 2 (Sidoravicius, V.; Vares, M.E., Eds.), *Progress in Probability*, **60**, pp. 257-270.
- 2006 A generalization of the PST algorithm: modeling the sparse nature of protein sequences. *Bioinformatics*, **22**(11), pp. 1302-1307.
- 2006 with J. Barrera, R.M. Cesar Jr., D.C Martins Jr., E.F. Merino, R.Z.N Vêncio, M.M. Yamamoto, C.A.B. Pereira and H.A. del Portillo. Constructing probabilistic genetic networks of Plasmodium falciparum from dynamical expression signals of the intraerythrocytic development cycle. In: McConnell; Lin and Hurban. (Org.). *Methods of Microarray Data Analysis V*, chapter 2. Springer.
- 2005 with A. Galves. Sequence motif identification and protein family classification using probabilistic treest. In: Simpósio Brasileiro de Bioinformática, BSB 2005, São Leopoldo, RS, Brasil. *Lecture Notes in Computer Science*, 3594, pp. 190-193, Springer.

MEETINGS

- July 2015 Meeting of the International Society for Non-parametric Statistics. Graz, Austria.
- July 2014 37th Conference on Stochastic Processes and Their Applications. Buenos Aires, Argentina.
- August 2012 IV Latin American Congress of Mathematicians. Córdoba, Argentina.
- July 2012 3rd Indo-Brazilian Symposium in Mathematics. Rio de Janeiro, RJ, Brazil.
- July 2012 Simpósio Nacional de Probabilidade e Estatística (SINAPE). João Pessoa, PB, Brazil.
- July 2011 Workshop on chains and systems with interactions of variable length. Cambury, SP, Brazil.
- November 2009 XI CLAPEM, Latin American Congress of Probability and Mathematical Statistics. Naiguatá, Venezuela.
- October 2009 6th ERPEM, Regional Meeting of Probability and Mathematical Statistics. São Paulo, Brazil.
- September 2009 Annual meeting of the Argentinean Mathematical Union. Mar del Plata, Argentina.
- August 2009 13th Brazilian School of Probability. São Sebastião, SP, Brazil.
- November 2008 5th ERPEM, Regional Meeting of Probability and Mathematical Statistics. Solís, Uruguay.
- August 2008 12th Brazilian School of Probability. Ouro Preto, Brazil.
- July 2008 First Indo-Brazilian Symposium in Mathematics. Rio de Janeiro, Brazil.
- November 2007 4th ERPEM, Regional Meeting of Probability and Mathematical Statistics. Solís, Uruguay.
- August 2007 11th Brazilian School of Probability. São Sebastião, Brazil.
- February 2007 X CLAPEM, Latin American Congress of Probability and Mathematical Statistics. Lima, Peru.

January 2007	School and Workshop on Probability Theory and Applications ICTP/CNPq. Campos do Jordão, Brazil.
November 2006	3rd ERPEM, Regional Meeting of Probability and Mathematical Statistics. Buenos Aires, Argentina.
November 2005	2nd ERPEM, Regional Meeting of Probability and Mathematical Statistics. Buenos Aires, Argentina.
October 2005	International Conference of the AB3C, X-meeting 2005. Caxambu, Brazil.
August 2005	9th Brazilian School of Probability. São Sebastião, Brazil.
July 2005	Brazilian Symposium on Bioinformatics, BSB. São Leopoldo, Brazil.
November 2004	1st ERPEM, Regional Meeting of Probability and Mathematical Statistics. Buenos Aires, Argentina.
August 2004	8th Brazilian School of Probability. Ubatuba, Brazil.
May 2003	1st International Conference on Bioinformatics and Computational Biology - ICoBi-CoBi. Ribeirão Preto, Brazil.

STUDENTS

Undergraduate

Violeta Roizman (present)
 Andressa Cerqueira (2011)
 André J. Bianchi (2010)

Master

Thales E.S. de M. Neto (present)
 Andressa Cerqueira (2014)
 Bruno M. de Castro (2013)

Doctor

Hugo Kenji P. Harada (present)
 Andressa Cerqueira (present)
 Iara M. Frondana (2016)

LANGUAGES

Spanish: native competence.
 Portuguese: fluent.
 English: fluent.
 French: fluent.

São Paulo, February 2017